

Embodiment 3 of the invention,

Fig. 6 is an enlarged half section view of main portions of a pipe joint made of resin of

Embodiment 4 of the invention,

Fig. 7 is an enlarged half section view of main portions showing an example of a pipe joint made of resin of the conventional art,

Fig. 8 is an enlarged half section view of main portions showing another example of a pipe joint made of resin of the convention art, and

Fig. 9 is an enlarged half section view of main portions showing a further example of a pipe joint made of resin of the convention art.

Detailed Description of the Preferred Embodiments of the Invention

Embodiment 1 will be described. A pipe joint made of-

IN THE CLAIMS:

Please cancel claims 1, 2, 3 and 5 without prejudice or disclaimer of the subject matter thereof.

Please add the following new claims:

Sub B₁ 10. A pipe joint made of resin, comprising:

a sleeve-like inner ring which is to be pressingly inserted into one end portion of a pipe member to be integrated with said pipe member under a state where said inner ring is outward protruded in an axial direction from one end portion of said pipe member;

a joint body in which a cylindrical receiving port is formed in one end portion, an insertion portion of said pipe member into which said inner ring is pressingly inserted being to be

inserted into said receiving port; and

a pressing ring which is to be screwed to said one end portion of said joint body, presses said inner ring from an outer side of said pipe member by means of screw advancement toward said one end portion of said joint body, to cause a projected tip end portion of said inner ring to abut against an inner area of said receiving port of said joint body, thereby forming a sealing portion, wherein:

an inner radial face of said projected tip end portion of said inner ring is formed as a conical tapered face in which a diameter is larger as further moving toward an outer side in the axial direction,

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a cylindrical groove is formed in an inner area of said receiving port of said joint body, said projected tip end portion of said inner ring including said conical tapered face is to be fitted into the axial direction, and said groove cooperates with at least one of a place of said conical tapered face and a place on a side of an outer radial face of said projected tip end portion, to form said sealing portion, and

the inclination angle of said conical tapered face of said projected tip end portion of said inner ring with respect to the axis is set to 5 to 20°.

11. A pipe joint made of resin, comprising:

a sleeve-like inner ring which is to be pressingly inserted into one end portion of a pipe member to be integrated with said pipe member under a state where said inner ring is outward protruded in an axial direction from one end portion of said pipe member;

a joint body in which a cylindrical receiving port is formed in one end portion, an insertion portion of said pipe member into which said inner ring is pressingly inserted being to be

inserted into said receiving port; and

a pressing ring which is to be screwed to said one end portion of said joint body, presses said inner ring from an outer side of said pipe member by means of screw advancement toward said one end portion of said joint body, to cause a projected tip end portion of said inner ring to abut against an inner area of said receiving port of said joint body, thereby forming a sealing portion, wherein:

an inner radial face of said projected tip end portion of said inner ring is formed as a conical tapered face in which a diameter is larger as further moving toward an outer side in the axial direction,

a cylindrical groove is formed in an inner area of said receiving port of said joint body, said projected tip end portion of said inner ring including said conical tapered face is to be fitted into the axial direction, and said groove cooperates with at least one of a place of said conical tapered face and a place on a side of an outer radial face of said projected tip end portion, to form said sealing portion,

one or plural projections which are projected in a radially outward direction and abut against an inner peripheral face of said receiving part of said joint body to form said sealing portion are disposed on said outer radial face of said projected tip and portion of said inner ring, and

said one or plural projections are disposed separated from one another by a gap in the axial direction.

4. (Amended) A pipe joint made of resin according to claim 10, wherein one or plural projections which are projected in a radially outward direction and abut against an inner peripheral

15
face of said receiving port of said joint body to form said sealing portion are disposed on said outer radial face of said projected tip end portion of said inner ring.

6. (Amended) A pipe joint made of resin according to claim 10, wherein said outer radial face of said projected tip end portion of said inner ring is formed as a conical tapered face in which a diameter is smaller as further moving toward an outer side in the axial direction.

7. (Amended) A pipe joint made of resin according to claim 4, wherein said outer radial face of said projected tip end portion of said inner ring on which said projections are formed is formed as a conical tapered face in which a diameter is smaller as further moving toward an outer side in the axial direction.

8. (Amended) A pipe joint made of resin according to claim 10, wherein a cylindrical portion which abuts against an inner peripheral face of a cylindrical portion on an inner radial side of said cylindrical groove of said joint body is formed integrally with an inner radial side of said projected tip end portion of said inner ring.

9. (Amended) A pipe joint made of resin according to claim 4, wherein a cylindrical portion which abuts against an inner peripheral face of a cylindrical portion on an inner radial side of said cylindrical groove of said joint body is formed integrally with an inner radial side of said projected tip end portion of said inner ring on which said projections are formed.
